

STIC Search Report

STIC Database Tracking Number: 134432

TO: Helen Pezzuto Location: REM 10A29

Art Unit: 1713 October 6, 2004

Case Serial Number: 09/831057

From: Kathleen Fuller Location: EIC 1700 REMSEN 4B28

Phone: 571/272-2505

Kathleen.Fuller@uspto.gov

Search Notes		The second secon		
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310/7/000

Questions about the scope or the results of the search? Contact the EIC searcher or contact:

Kathleen Fuller, EIC 1700 Team Leader 571/272-2505 REMSEN 4B28

Voluntary Results Feedback Form > I am an examiner in Workgroup: Example: 1713 > Relevant prior art found, search results used as follows:	
 ☐ 102 rejection ☐ 103 rejection ☐ Cited as being of interest. ☐ Helped examiner better understand the invention. ☐ Helped examiner better understand the state of the art in their technology. 	
Types of relevant prior art found: [Foreign Patent(s) [Non-Patent Literature	
 Relevant prior art not found: Results verified the lack of relevant prior art (helped determine patentability). Results were not useful in determining patentability or understanding the invention. 	on.
Comments:	

Drop off or send completed forms to EIC1700 REMSEN 4B28



SEARCH REQUEST FORM

134432

Scientific and Technical Information Center

1/2 P
Requester's Full Name: HELEN LETTUPO Examiner #: 70058 Date: 10/5/04
Art Unit: 1713 Phone Number 30 2 - 1108 Serial Number: 09/831, 057
Mail Box and Bldg/Room Location: REM - 10A29 Results Format Preferred (circle PAPER)DISK E-MAIL
If more than one search is submitted, please prioritize searches in order of need.
Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched.
Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if
known. Please attach a copy of the cover sheet, pertinent claims, and abstract.
Title of Invention: FEE ATTACHED
Inventors (please provide full names):
Earliest Priority Filing Date: 11/6/98
For Sequence Searches Only Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.
- A surfactant monomer defined in claim !,
Somed Com reactives a unsated comboylic acid
and an ackylene exide in the presence of Lewis
and an ackylene exide in the presence of Lewis acid catalyst (i.e. born trifluoride > C17) and the hydroguinone (claim 21), follow by
Han hydrogumone (claim 21), follow by
phosphatian with phosphorus plutoxidi.
- resulting polymerized surfactant (emulain
- resulting polymerized surfactant (emulaian palymerzation) is used in coating application
Ex: methanglie and + propylene exide + boron
Ex: methanglie acid + propylene exide + boron triflueriale + hydroguinene phorphorus sufactant
KEY WORDS
coating, unulsion, Lewis acid (BF3) catalyst
Coating, unulsion, Lewis acid (BF3) catalget Many Thanks.
,

=> FILE REG

FILE 'REGISTRY' ENTERED AT 10:24:01 ON 06 OCT 2004
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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 4 OCT 2004 HIGHEST RN 756793-93-8 DICTIONARY FILE UPDATES: 4 OCT 2004 HIGHEST RN 756793-93-8

TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at: http://www.cas.org/ONLINE/DBSS/registryss.html

=> FILE HCAPLUS

FILE 'HCAPLUS' ENTERED AT 10:24:05 ON 06 OCT 2004
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FILE COVERS 1907 - 6 Oct 2004 VOL 141 ISS 15 FILE LAST UPDATED: 5 Oct 2004 (20041005/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> D QUE L19
L3 STR (

5
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CH2: C \(\sigma \cdot \cdo

NODE ATTRIBUTES: DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS

STEREO ATTRIBUTES: NONE

STR)



NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RSPEC I

NUMBER OF NODES IS

STEREO ATTRIBUTES: NOME

CH2-CH-O 1 2 3

NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS

STEREO ATTRIBUTES: NONE STR 4

4

0

 $HO \sim P \sim OH$ 2

NODE ATTRIBUTES:

CONNECT IS E1 RC AT

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS, 4

STEREO ATTRIBUTES: NONE

4810 SEA FILE=REGISTRY SSS FUL L3 AND (L4 OR L5) AND L6

2744 SEA FILE=HCAPLUS ABB=ON L10 L11

L12 1229 SEA FILE=HCAPLUS ABB=ON L11(L) (PREP OR IMF OR SPN)/RL

L13 16 SEA FILE=HCAPLUS ABB=ON L12(L)SURFACT?

KATHLEEN FULLER EIC 1700 REMSEN 4B28 571/272-2505

4,810 structures from queries 1 and (2013) and 4

1777					
AZ2	ZUTO C	8/8310	57	10/06/	04

L15	37	SEA	FILE=HCAPLUS	ABB=ON	L12 AND SURFACT?/IT
L16	37	SEA	FILE=HCAPLUS	ABB=ON	L13 OR L15
L17	13	SEA	FILE=HCAPLUS	ABB=ON	L16 AND COATING?/SC, SX, AB, BI
L18	18	SEA	FILE=HCAPLUS	ABB=ON	L16 AND POLYMERI? (4A) SURFACT?
L19	25	SEA	FILE=HCAPLUS	ABB=ON	L17 OR L18
	-				

25 CA references with acs on STN whity

=> D L19 BIB ABS IND HITSTR 1-25

L19ANSWER 1 OF 25 HCAPLUS COPYRIGHT 2004 ACS on STN

2003:705115 HCAPLUS ΑN

DN 139:231637

TТ Coating compositions for ink-jet recording sheets and ink-jet recording sheets with good gloss, ink receptability, and transparence

ΤN Takeuchi, Shuji; Oshiki, Junji

PΑ Arakawa Chemical Industries, Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 9 pp. CODEN: JKXXAF

DΤ Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PΙ	JP 2003251934	A2	20030909	JP 2002-364603	20021217
PRAI	JP 2001-392022	A	20011225		

AΒ Title compns. comprise (A) cationic crosslinked polymer fine particle aqueous dispersions with average particle diameter 20-300 nm obtained by coagulation of (B) cationic crosslinked polymer fine particle aqueous dispersion with average particle diameter 10-200 nm obtained by emulsion polymerization of unsatd. monomers

in the presence of tertiary amino or quaternary ammonium group-containing cationic polymers with (C) compds. having coagulation properties against B, where the average particle diameter ratio of A/B = 1.01-1.50. Thus, 100 parts

25%-solids cationic crosslinked polymer fine particle aqueous dispersion with average particle diameter 70 nm obtained from styrene, Me methacrylate, N, N-dimethylaminoethyl methacrylate, glycidyl methacrylate, and divinyl benzene and 25.0 parts 1%-solids anionic crosslinked polymer fine particle aqueous dispersion with average particle diameter 70 nm obtained from Me methacrylate

New Frontier S 510, and Eleminol JS 2 were mixed to give 20%-solids cationic polymer particle aqueous dispersion with average particle diameter 85

nm, 100 parts of which was mixed with 50 parts 10% aqueous PVA 217 solution, applied

on a paper and a transparent OHP film, and used for ink-jet printing, showing good ink receptability, gloss 85 for paper, and transparency 86 for OHP film.

ICM B41M005-00 TC ICS B41J002-01

CC 38-3 (Plastics Fabrication and Uses) Section cross-reference(s): 42, 43, 74

ST coating compn ink jet recording sheet gloss receptability transparence; quaternized acrylic styrene copolymer coagulation

TT Polyelectrolytes

Surfactants

(anionic, coagulation agent for cationic polymer; preparation of cationic polymer coating compns. for ink-jet recording sheets)

IT Polyelectrolytes